







# IP RATING CHART

All electrical enclosures carry a IP code which contain 2 digits.

## IP

The first numeral indicates protection of persons against access to hazardous parts, and protection of equipment against ingress of solid foreign objects.

The second numeral indicates protection of equipment against harmful ingress of water.

|  |  |
|--|--|
| <b>X</b>   | Protection unspecified (untested)  |
| <b>0</b>   | Non-protected  |
|  <b>1</b>   | Protection of the back of the hand against accidental access to hazardous parts, and protection of equipment against objects larger than 50mm.                   |
|  <b>2</b> | Protection of fingers against access to hazardous parts, and protection of equipment against objects larger than 12.5mm.   |
|  <b>3</b> | Protection of persons holding tools or wires (larger than 2.5mm diameter), and protection of equipment against objects larger than 2.5mm. (e.g. ball bearings)   |
|  <b>4</b> | Protection of persons holding small tools or wires (larger than 1mm diameter), and protection of equipment against objects larger than 1mm. (e.g. ball bearings) |
|  <b>5</b> | Protection against entry in sufficient quantity to interfere with satisfactory operation of equipment.   |
|  <b>6</b> | Complete protection against entry of dust.   |

|   |   |
|---|---|
| <b>X</b>  | Protection unspecified (untested)   |
| <b>0</b>  | Non-protected   |
|  <b>1</b>   | Protection against drops of water falling vertically.   |
|  <b>2</b>  | Protection against drops of water falling vertically when the object is tilted up to 15° from its normal position. (in any direction) |
|  <b>3</b> | Protection against spraying water at up to 60° from the vertical.   |
|  <b>4</b> | Protection against splashing and spraying water from all practicable directions.  |
|  <b>5</b> | Protection against low pressure jets of water from all practicable directions.  |
|  <b>6</b> | Protection against heavy seas or a strong jet of water from all practicable directions.   |
|  <b>7</b> | Protection against temporary immersion.   |
|  <b>8</b> | Protection against continuous submersion (tests subject to agreement, but no less severe than second numeral 7)                       |